

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

ADDITIONS TO MUSEUM.

MAMMALS.

Otto Behr. Pine Marten, Mustela americana; four Weasels, Putorius noveboracensis; Rabbit, Lepus floridanus transitionalis; Red-backed Mouse, Evotomys gapperi; skins and skulls; and Brewer's Mole, Parascalops brewer; Short-tailed Shrew, Blarina brevicauda; White-footed Mouse, Peromyscus canadensis; House Mouse, Mus musculus, and four Weasels, Putorius noveboracensis, alcoholic; all from Wyoming county, Pa. Stewardson Brown. Red Bat, Lasiurus borealis, Philadelphia.

HENRY C. CHAPMAN, M.D. Feetus of Felis domestica, Sus scrofa, Dasypus sexcinctus, Monkey sp., and placenta of Oryx.

WILLIAM E. HUGHES, M.D. Collection of twenty-one mammal skins and skulls from Chihuahua, Mex.

CHARLES D. KELLOGG. Mongoose, Herpestes griseus, skin and skull. PURCHASED. Collection of skins and skulls of mammals from Texas and Colorado; skull of Black Bear, Ursus americanus, from Clinton county, Pa., and Virginia Deer, Odocoileus virginianus, male (for mounting);

Wyoming county, Pa.; Florida Manatee, *Trichichus latirostris*, skeleton. J. A. G. Rehn. Five skins and skulls of Pennsylvania mammals.

SAMUEL N. RHOADS. (Collected for the Academy.) Five Field Mice, Microtus pennsylvanicus; four Short-tailed Shrews, Blarina brevicauda, and eleven White-footed Mice, Peromyscus leucopus, skins and skulls.

ALFRED SATTERTHWAIT. Jumping Mouse, Zapus hudsonius americanus (mounted), Chester county, Pa.

MRS. CHARLES SCHAEFFER. Skin of Pocket Gopher and Shrew, British Columbia.

WITMER STONE AND J. A. G. REHN. (Collected for the Academy.) Two Red-backed Mice, *Evotomys gapperi rhoadsi*, skins and skulls, New Jersey.

ZOOLOGICAL SOCIETY OF PHILADELPHIA. Specimens prepared as indicated: Mounted: Prevost's Squirrel, Sciurus prevosti; Indian Rhinoceros, Rhinoceros unicornis. To be mounted: Red Deer, Cervus elaphus; Black-backed Jackal, Canis mesomelas; Ring-tailed Lemur, Lemur catta; Rufous-necked Wallaby, Halamaturus ruficollis; Red-handed Spider Monkey, Ateles paniscus. Skins and skulls: Entellus Monkey, Semnopithecus entellus; White-throated Monkey, Cercopithecus albogularis (no skull); Gray-cheeked Mangaby, Cercocebus collaris; Lion-tailed Macaque, Macacus silenus; Black Ape, Cynopithecus niger; Silky Marmoset, Midas rosalia (no skull); Lion, Felis leo (male); Florida Otter, Lutra hudsonica vaga; Bassaris, Bassariscus astutus flavus; Black-backed Jackal, Canis mesomelas;

Slow Loris, Tardigradus tardigradus (no skull); three Arizona Cottontails, Lepus arizonæ minor; two Spermophiles, Spermophilus mexicanus and S. spilosoma; Texan Cotton Rat, Sigmodon hispidus texianus; two Wood Rats, Neotoma micropus and N. albigula; Gopher, Cratogeomys castanops; two Kangaroo Rats, Dipodomys ambiguus and D. spectabilis; Rufous-necked Wallaby, Hulmaturus ruficollis. Skin and skeleton: Female Buffalo, Bison bison; European Otter, Lutra lutra. Skulls: Green Monkey, Cercopithecus callitrichus; Rhesus Macaque, Macacus rhesus; Ring-tailed Coati, Nasua narica. Skeletons: Indian Rhinoceros, R. unicornis; two Spotted Hyenas, Hyæna crocuta; Striped Hyena, H. hyæna; Sacred Monkey, Semnopithecus entellus; Gibbon, Hylobates lar; Black-backed Jackal, Canis mesomelas. Alcoholic: two Neotoma micropus, Tardigradus tardigradus, Dipus jaculus, Ursus arctos (very young), two Spermophilus mexicanus.

A. DONALDSON SMITH, M.D. Collection of thirty skins and skulls of African mammals, several mounted heads and mounted Antelope.

IN EXCHANGE. Two specimens of Chilonycteris, from Porto Rico.

R. T. Young. Two skins of Weasel, Putorius noveboracensis, Princeton, N. J.

BIRDS.

COL. G. T. ANDERSON. Two bird skins from the Philippines.

ARTHUR ERWIN BROWN. Three skins of Zonotrichia leucophys and egg of Corvus cryptoleucus (?), Pecos, Tex.

J. L. Buck. Parrot skull (Chrysotis sp.).

Delaware Valley Ornithological Club. Three nests, two sets of eggs and three mounted birds.

H. W. Fowler. Collection of skulls and sterna, mainly of Pennsylvania birds, and collection of skins of water birds from Pennsylvania and New Jersey.

ALFRED C. HARRISON, JR., AND DR. H. M. HILLER. Skin of Ibis papillosus, Borneo.

SUSAN HAYHURST, M.D. Twelve skins of Colorado birds.

CHARLES D. KELLOGG. Several eggs of sea birds from Bird Rock.

DAVID McCADDEN. Skin of Harlequin Duck, Histrionicus histrionicus. CHARLES B. PENROSE, M.D. Skin of Franklin's Grouse, Dendragapus franklini.

J. A. G. REHN. Four skins of Pennsylvania birds.

THOMAS A. ROBINSON. Case of twelve mounted birds from Africa.

A. DONALDSON SMITH. Collection of one hundred and twenty-nine bird skins from Lake Rudolf and vicinity, Africa.

WITMER STONE. Collection of skulls and sterna of North American birds.

H. W. WENZEL. Specimen of Hudsonian Godwit, Limosa hæmastica Anglesea, N. J., prepared as skin.

ROBERT T. YOUNG. Collection of nests and eggs of North American birds from Nova Scotia, Pennsylvania, New Jersey, etc.

ZOOLOGICAL SOCIETY OF PHILADELPHIA. Prepared as skins: Trichoglossis forsteni, Chrysotis salvini, Rhamphastos brevicarinatus, Chondestes grammacus, Conurus patagonicus, Lanius ludovicianus excubitorides, Ploceus baya, Pyrrhulopsis tabuensis, Amazona pretrei. Skull and sternum: Coscoroba coscoroba, Falco fusco-cærulescens. Skeleton: Dendrocitta vagabunda, Pelecanus erythrorhynchus, Gyps fulvus.

PURCHASED. McIlhenny collection of Alaskan birds, three hundred and forty-seven skins.

REPTILES AND BATRACHIA.

ARTHUR ERWIN BROWN. One hundred and forty-five specimens, representing seventy-five species, of snakes and lizards; also type of *Coluber sub-ocularis* Brown.

HERBERT BROWN. Phyllorhynchus decurtatus, Yuma, Ariz.

OTTO BEHR. Rattlesnake, *Crotalus horridus*, and small collection of reptiles, Wyoming county, Pa.

E. D. COPE ESTATE. One hundred-and fifty specimens of reptiles and hatrachia.

PHILIP LAURENT. A collection of reptiles and batrachia from Florida and several specimens from Philadelphia.

DAVID McCADDEN. Specimen and plaster cast of Coluber obsoletus, Stone Harbor, N. J.

CLARENCE B. MOORE. Three casts of snakes.

MRS. SCATTERGOOD. Pine snake, Pityophis melanoleucus, Brown's Mills, N. J.

HENRY SKINNER, M.D. Several reptiles and batrachia from Sapello Canyon, N. M.

WITMER STONE AND J. A. G. REHN. Small collection of reptiles and batrachia from the New Jersey Pine Barrens, including Rana virgatipes and Liolepisma laterale.

ZOOLOGICAL SOCIETY OF PHILADELPHIA. Tiliqua scincoides, Australia.

FISHES.

CHARLES W. BUVINGER. Five jars of fishes from Atlantic City, N. J.

H. W. FOWLER. Collections from Wood's Holl, Mass., Philadelphia and New Jersey coast, and specimen of Salmon.

DAVID McCADDEN. Specimens of Pipe fishes, Siphostoma fuscum.

H. A. PILSBRY. Jar of fishes from Florida.

MRS. L. J. RUSHTON. Head of Sword-fish (mounted).

- J. B. SAMUEL. Bone of Sturgeon.
- J. A. SCHULTZ. Mounted specimen of Grayling, Michigan.

BENJAMIN SHARP, M.D. Sand Shark, Carcharias littoralis, and Bill-fish, Tylosurus acris, Nantucket, Mass.

- U. S. FISH COMMISSION. Collection of Porto Rican fishes.
- E. D. COPE ESTATE. Several jars of fishes.

INSECTS, ETC.

W. M. BAKER. Larva of moth.

H. F. BASSETT. Three hundred and fifteen boxes of Cynipidæ and their galls.

FREDERICK BLANCHARD. One Coleopter.

G. W. Bock, M.D. Thirty Hemiptera, nine hundred Coleoptera.

A. E. Brown. One Coleopter, nine Orthoptera, three '1 helyphorus, fifty Hymenoptera.

T. D. A. COCKERELL. Forty-three Hymenoptera, three Diptera, twenty-two Lepidoptera, three Neuroptera, one Hemipter.

EMILY COOPER. Nest of Tarantula.

E. T. CRESSON. 3,511 species of Hymenoptera—87,775 specimens, 2,367 types.

J. S. DIXON. Eight Arachnida.

S. G. DIXON. One Coleopter.

GEORGE ELLIOT. Larva of Citheronia regalis.

JOSEPH W. FELL. Larva of Citheronia regalis.

W. F. FISKE. One Lepidopter.

GEORGE FRANCK. Forty Lepidoptera.

ARTHUR FROEHL. Dolomedes sp.

A. HEMPEL. One hundred Neuroptera.

M. E. HOEG. Seven Lepidoptera, eleven Hymenoptera, five Coleoptera, ten Neuroptera.

HERMAN HORNIG. Two hundred and fifty Hymenoptera, thirty-five Lepidoptera.

C. W. Johnson. Six Diptera, two Lepidoptera.

PHILIP LAURENT. Two Orthoptera.

C. W. LENG. Six Coleoptera.

F. A. MERRICK. One hundred and twenty-nine Lepidoptera.

H. B. MEYERS. Fenodera sinensis.

O. C. Poling. Fourteen Lepidoptera.

CHARLES ROBERTSON. Twenty-four Hymenoptera (co-types).

J. A. G. REHN. 1,653 Orthoptera. Collection of insects from New Jersey Pine Barrens. (Collected for the Academy.)

MRS. CHARLES SCHAFFER. Nine Hymenoptera, twenty-one Diptera, three Lepidoptera, forty-seven Coleoptera, two Orthoptera, one Hemipter, ten Neuroptera.

HENRY SKINNER. Three hundred and fifty-three Hymenoptera, one hundred and seventy-two Diptera, five hundred and eighty-six Coleoptera, two hundred and fourteen Hemiptera, twenty-five Neuroptera, one hundred and seventy-four Lepidoptera, fifty-one Orthoptera.

 $\ensuremath{\mathtt{DR}}.$ A. D. Smith. Forty-seven Coleoptera, thirty-one Lepidoptera, two Hemiptera, two Oithoptera.

USELMA C. SMITH. Four Hemiptera.

LANCASTER THOMAS. Thirty-six Coleoptera, three Orthoptera, nine Neuroptera.

- E. G. VANATTA. One thousand insects, various orders.
- H. L. VIERECK. Thirty Hymenoptera.
- J. L. WEBB. Two Coleoptera.
- H. W. WENZEL. One hundred and forty-five Hymenoptera, eighteen Coleoptera.
 - W. M. WHEELER. Thirty Hymenoptera.
 - J. S. WHITEMAN. Three Coleoptera.

STEWARDSON BROWN. Twelve Hemiptera, one Lepidopter.

WEST INDIAN FRUIT Co. Mygale sp.

ZOOLOGICAL SOCIETY OF PHILADELPHIA. Scolopendria sp., Pecos, Tex.

RECENT MOLLUSCA.

REV. E. H. ASHMUN. Sixty-seven species of land and fresh-water shells from Idaho and Arizona.

CARL F. BAKER. Fifty-six trays of shells from the Southern States.

F. C. BAKER. Ten species of fresh-water shells from Illinois.

- W. T. BENDALL. Oxystyla undata Brug., from New Providence, Bahama Islands.
 - A. C. BILLUPS. Thirty five species of land shells from Indiana.

BOTANICAL SECTION. Two species of fresh-water shells from Bethlehem, Pa. Three species of land and fresh-water shells from Bermuda.

- J. H. BRITTS, M.D. Fifty-seven species of Unionidæ from Missouri.
- F. W. BRYANT. Three species of California land shells.

FRED L. BUTTON. Pecten diegoensis Dall, from Monterey, Cal.

EMILIO F. CABADA. Twelve trays of Cuban land shells.

H. C. CHAPMAN, M.D. Five species of marine shells from Bar Harbor, Me.

GEO. H. CLAPP. Thirteen trays of American land shells.

- T. D. A. and W. P. COCKERELL. Ninety lots of land and fresh-water shells from New Mexico.
 - O. COLLETT. Twenty-six species of shells from Ceylon, in exchange

ANNIE P. COPE. Three hundred and seventy-three trays of shells from the United States and Polynesia.

- O. A. CRANDALL. Physa rhomboidea and P. walkeri Crandall, cotypes.
- L. E. DANIELS. Twenty-three lots of United States land shells.
- O. DEBEAUX. Six trays of Algerian land shells.

SAMUEL G. DIXON, M.D. Fifteen trays of marine shells from Cuba.

S. M. EDWARDS. Pyramidula from Colorado.

SIR CHARLES ELLIOTT. Six trays of marine shells from New Zealand.

- M. J. ELROD. Fifteen trays of land and fresh-water shells from Montana.
- J. H. FERRISS. Eighty-two lots of American land shells.

WM. H. FLUCK. Seven species of marine and fresh-water shells from Nicaragua.

JOHN FORD. Four species of shells from Florida and Pennsylvania.

- H. W. FOWLER. Ten trays of marine shells from Martha's Vineyard, Mass.
 - L. S. FRIERSON. Quadrula lananensis Frierson.

MRS. E. M. GAYLORD. Two species of *Epiphragmophora* from Santa Catalina Island, California.

HAROLD HEATH. Four species of marine shells from California.

HENRY HEMPHILL. Eighteen species of California land shells.

J. B. HENDERSON, JR. Five species of land shells from Haiti.

Y. HIRASE. Eight hundred and thirty-six lots of Japanese shells.

C. W. JOHNSON. Five species of American land and fresh-water shells.

HOWARD JONES. Seven species of marine shells from New Jersey. FAITH KEELY. Five species of marine shells from New Jersey.

R. E. B. McKenney, M.D. Ten species of European land mollusks, in formalin

- R. J. KIRKLAND, M.D. Planorbis from Michigan.
- E. J. Letson. Amnicola letsonæ and Goniobasis niagarensis.
- O. S. Lewis. Four trave of fresh-water shells from Indiana.
- H. LOOMIS. Ten species of Japanese shells.
- H. N. Lowe. Four species of Limax and tectibranchs from Long Beach, Cal.
- J. G. Malone. Seventy-five species of marine shells from Santa Rosalia, Lower California.

GEORGE T. MARSTON. Physa integra Hald. from Quincy, Ill.

O. O. NYLANDER. Eighteen species of shells from Maine.

CHARLES B. PENROSE, M.D. Pisidium from Idaho.

H. A. PILSBRY, D.Sc. Twenty species of American land shells.

PURCHASED. Three hundred and twenty-eight species of operculate land shells.

- W. M. RANKIN. Two species of land and fresh-water shells from Bermuda.
- S. N. Rhoads. Forty-two trays of land and fresh-water shells from New Jersey and Pennsylvania.
 - S. RAYMOND ROBERTS. Cypraa anna Roberts, from Hawaii.

REV. J. ROWELL. Two trays of Pacific marine shells.

W. H. Rush, M.D. Three trays of marine shells from Honolulu.

SILAS L. SCHUMO. Three trays of marine shells from Europe.

B. SHARP, M.D. Seven trays of West Indian shells.

C. T. Simpson. Pleurodonte bizonalis from Haiti.

HENRY SKINNER, M.D. Eight species of land shells from New Mexico.

R. E. C. STEARNS. $Vivipara\ stelmaphora\ Bgt.\ and\ Limax\ maximus\ from\ California.$

STEERE EXPEDITION. Two trays of South American shells.

WITMER STONE. Donax fossor from New Jersey.

A. Donaldson Smith, M.D. Thirty-four species of shells from British East Africa.

USELMA C. SMITH. Five trays of shells.

ROBERT E. SNODGRASS. One hundred and seventy-five trays of marine shells from the Galapagos Islands.

D. THAANUM. Thirty-six trays of marine shells from Hawaii, Australia and New Guinea.

- U. S. NATIONAL MUSEUM. Seven trays of land shells from Japan and Brazil.
 - E. G. VANATTA. Eight species of American land shells.
- T. VAN HYNING. Twenty-six species of American land and fresh-water shells.
 - J. W. VELIE, M.D. Seven species of American shells.

BRYANT WALKER: Twenty-two species of land and fresh-water shells from Michigan.

- A. G. WETHERBY. Nine species of American land and fresh-water shells.
- J. J. WHITE. Cerithium costatum from Bahama Islands.

WM. WOOD. Six trays of shells.

WILLIARD WOOD. Two trays of shells from California.

L. WOOLMAN. Unio from Greenbrier river, West Virginia.

OTHER INVERTEBRATES.

REV. E. H. ASHMUN. Helicopsyche from Arizona.

BOTANICAL SECTION. Lingula anatina Brug., Australia.

STEWARDSON BROWN. Cambarus from Ganoga Lake, Pennsylvania.

CHAS. W. BUVINGER. Two jars Crustacea, Atlantic City, N. J.

- H. C. CHAPMAN, M.D. Seven jars of invertebrates from Bar Harbor, Me.
- T. D. A. COCKERELL. Two specimens of Cambarus gallinus P. and C. and Helicopsyche from New Mexico.

CATHARINE G. DIXON. Limulus polyphemus from Ballast Point, Fla.

- J. E. DUERDEN. Five specimens of Peripatus from Bath, Jamaica.
- H. W. FOWLER. Two jars of invertebrates from Martha's Vineyard, Mass.
 - C. L. FURBUSH. Hyalonema sp., Philippines.
 - Y. HIRASE. Six species of Balanus and Brachiopods from Japan.
 - H. W. NAGLE. Physalia from Anglesea, N. J.
 - H. A. PILSBRY. Twenty-nine jars of invertebrates from Florida.

PURCHASED. Thirty-five trays of invertebrates, collected by C. D. Voy in the Pacific Ocean. Collection of Crustacea from Caroline Island, South Pacific

- S. N. RHOADS. Two trays of invertebrates from Cuba and New Jersey.
- W. H. Rush, M.D. Two jars of invertebrates from the Pacific Ocean.

PAUL SARTAIN, M.D. Specimen of coral.

- B. SHARP, M.D. Carcinus manas L. from Nantucket.
- USELMA C. SMITH. Segartia spongicola Verr. from Spray Beach, N. J.

WITMER STONE. Suberites from Cape May, N. J.

E. B. WILLIAMSON. Cambarus dubius from Nashville, Tenn.

Fossil Vertebrates.

EDWARD D. COPE ESTATE. A small miscellaneous collection.

MINERALOGICAL SECTION. Two slabs of red shale, showing Dinosaur tracks and ripple marks, from near Grater's Ford Station, Perkiomen R. R., Montgomery county, Pa.

USELMA C. SMITH. Fossil Fish, Green River, Wyoming.

FOSSIL INVERTEBRATES.

REV. LEANDER TROWBRIDGE CHAMBERLAIN. Six hundred and fifteen lots from the Eocene and Oligocene of Europe.

H. C. CHAPMAN, M.D. Three species of Brachiopods from Maine and Europe.

ANNIE P. COPE. Three trays of North American fossils.

SAMUEL G. DIXON, M.D. Two trays of mollusca from Cuba.

GEORGE CUTHBERT GILLESPIE. Baculites ovatus Say, from Maple Shade, N. J.

C. W. Johnson. Teredo from Caloosahatchie river, Florida.

CLARENCE B. MOORE. Exogyra costata Say, Hoskins Landing, Miss.

José N. Rovirosa. Ostrea contracta Conr., Mexico.

JOHN TORPY. One tray of fossils from County Kilkenny, Ireland.

J. T. WALTON. Two trays of fossils from near Cardiff, N. Y.

S. WOOLVERTON, M.D. Three trays of Canadian fossils.

FOSSIL PLANTS.

PAULINE L. NIEDHARD. Several Carboniferous plants.

PLANTS.

Hugo Bilgram. Drachæa subsissilis, Physarum pallidum and Physarum variabile.

BOTANICAL SECTION. One hundred and ninety specimens of Mexican plants, collections of C. G. Pringle; one hundred and twenty-nine specimens of Porto Rico plants, collections of A. A. Heller; seven hundred and seventy-six specimens of Canary Island plants, collections of Dr. Theodore Bornmüller.

STEWARDSON BROWN. Five hundred specimens of Pennsylvania and New Jersey plants.

WILLIAM M. CANBY. One hundred and thirty-nine specimens of North American plants, principally from Louisiana, Texas and Arkansas.

ZEPHANIAH HOPPER. Leptorchis lillifolia (L.).

E. L. Morris. Batrachium hederallum.

Col. C. A. H. McCauley. Nine hundred and eighty specimens of plants from Colorado and New Mexico.

C. F. SAUNDERS. Thirty specimens of North American plants.

 ${\tt BENJAMIN}$ H. SMITH. One hundred and thirty specimens of Colorado plants.

USELMA C. Smith. Forty-one specimens of Colorado plants; twenty specimens of ${\it Cratagus}.$

WITMER STONE. Two hundred and fifty specimens of Pennsylvania and New Jersey plants.

E. G. VANATTA. Twenty specimens of Maryland plants.

CONTRIBUTORS TO FUND FOR PURCHASE OF A. A. HELLER COLLECTION. Botanical Section, Stewardson Brown, Ida A. Keller, Ph.D., Arthur N.

Leeds, Francis S. Manderson, Thomas Meehan, Adolph Miller, M.D., Silas L. Schumo, Benjamin H. Smith, William C. Stevenson, Jr.

MINERALS.

Bell's Asbestos Co. Asbestos and Serpentine, Ontario.

SAMUEL G. DIXON, M.D. Limonite Geode, Pennsylvania; Chalcedony, Florida.

W. H. JARMAN, M.D. Sulphur found at Tampa, Fla.

FRANCES E. PEIRCE. Small case of minerals.

F. RITSCHL. Taraspite and Asbestos.

T. H. RYAN. Specimen of Bituminous Coal, Colorado.

J. T. WALTON. Two specimens of Limonite.

S. WOOLVERTON. Several minerals from Ontario.

WILLIAM S. VAUX COLLECTION. Specimens added by purchase.

ARCHÆOLOGY AND ETHNOLOGY.

ARTHUR ERWIN BROWN. Arrowheads and Indian Mill, Pecos, Tex.; Mexican Water Vessel, Ft. Davis, Tex.

ROBERT CASPERSON, M.D. Four Metates, Costa Rica.

HOWARD EATON. Zuni Ceremonial Clothes.

CLARENCE B. MOORE. Many additions to the Moore Archæological Collection.

PURCHASED. Eskimo Coat, Rattle and Boots; Beaded Saddle Bags.

F. W. PUTNAM. Indian Mill, Metate.

CHARLES G. SOWER. Egyptian Mummy.

J. F. SYFRIT. Eskimo Kyak Model.